PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference		FOR FURTHER ACTIO	ON S	See Form PCT/IPEA/416	
4115-197-PCT				Priority date (day/month/year)	
International application No.		International filing date (day	1	, , ,	
PCT/US05/0274	5 (700)	31 January 2005 (31.01.2005	<u>) </u>	30 January 2004 (30.01.2004)	
		or national classification and II		10/227, 260	
	30, <u>11/04; A01K 63/04 a</u>	and US Cl.: 210/151, 169, 605,	611, 612, 616, 617; 1	19/221, 200	
Applicant					
		ECHNOLOGY INSTITUTE			
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.					
		f a total of $\underline{\mathcal{G}}$ sheets, includ			
3. This	=	panied by ANNEXES, comp			
a. [ant and to the International			
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).					
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.				
ь.	(sont to the Inte	rnational Rureau only) a tot	al of (indicate type	and number of electronic carrier(s))	
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).					
4. Thi	s report contains indi	cations relating to the follow	ing items:		
	а	Basis of the report			
	Box No. II	Priority			
	_	Non-establishment of opinic applicability	on with regard to no	velty, inventive step and industrial	
	"	Lack of unity of invention			
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability, citations and explanations supporting such statement			
	7	Certain documents cited			
	Box No. VII	Certain defects in the intern	ational application		
	Box No. VIII	Certain observations on the international application			
Date of submission of the demand		Date of completion	n of this report		
		18 January 2006 (18	01 2006)		
03 November 2005 (03.11.2005) Name and mailing address of the IPEA/ US		Authorized officer	Λ		
Mail Stop PCT, Attn: IPEA/US			and the second		
Commissioner for Patents P.O. Box 1450		Fred Prince	Paralchus Specialism		
Alexandria, Virginia 22313-1450		Telephone No. (571) 272-0987 V \		
Facsimile No. (571) 273-3201		- 3 p. 10. (3/1	,,		

Form PCT/IPEA/409 (cover sheet)(April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.	
DCT/I IS05/02745	

Bo	x No.	I Basis of the report				
1.	With	regard to the language, this report is based on:				
	\boxtimes	the international application in the language in which it was filed.				
		a translation of the international application into <u>English</u> , which is the language of a translation furnished for the purposes of:				
		international search (under Rules 12.3 and 23.1(b))				
		publication of the international application (under Rule 12.4(a))				
		international preliminary examination (under Rules 55.2(a) and/or 55.3(a))				
2.	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):					
	\boxtimes	the international application as originally filed/furnished				
	\boxtimes	the description:				
		pages 1-23 as originally filed/furnished pages* NONE received by this Authority on				
		pages* NONE received by this Authority on				
	\square	the claims:				
	Ž	pages 24-27 as originally filed/furnished				
		pages* NONE as amended (together with any statement) under Article 19				
		pages* NONE received by this Authority on				
		pages* NONE received by this Authority on				
	\boxtimes	the drawings:				
		pages 1/3-3/3 as originally filed/furnished				
		pages* NONE received by this Authority on				
		pages* NONE received by this Authority on				
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.				
3.		The amendments have resulted in the cancellation of:				
		the description, pages				
		the claims, Nos				
		the drawings, sheets/figs				
		the sequence listing (specify):				
		any table(s) related to the sequence listing (specify):				
4.		This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).				
		the description, pages				
		the claims, Nos.				
		the drawings, sheets/figs				
		the sequence listing (specify):				
		any table(s) related to the sequence listing (specify):				
*	If iter	m 4 applies, some or all of those sheets may be marked "superseded."				

Form PCT/IPEA/409 (Box No. I) (April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US05/02745

Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1. Statement	t		
N	lovelty (N)	Claims 1-17	YES
		Claims NONE	NO
Ir	nventive Step (IS)	Claims <u>1-17</u>	YES
	• ()	Claims NONE	NO
Iı	ndustrial Applicability (IA)	Claims 1-17	YES
		Claims NONE	NO
2 Citations	and Explanations (Rule 70.7)		, ,

2. Citations and Explanations (Rule 70.7)
Claims 1-17 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

Claims 1-17 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest treating sludge in the manner recited in the claims. The closest prior art, WO 03/065798 to Linden et al., teaches treating aquaculture saltwater fro a rearing tank (10) including an initial solids separation step (3a), transferring saltwater to a holding tank containing media substrate for sulfate reduction (2a; page 20, lines 19-33), transferring saltwater to a denitrification tank containing media (2b), transferring the saltwater to a nitrification tank (5a), and transferring the saltwater to back to a rearing tank. However, the prior art fails to teach or fairly suggest transferring the separated solids, including sludge, to the above tanks for treatment.

Form PCT/IPEA/409 (Box No. V) (April 2005)